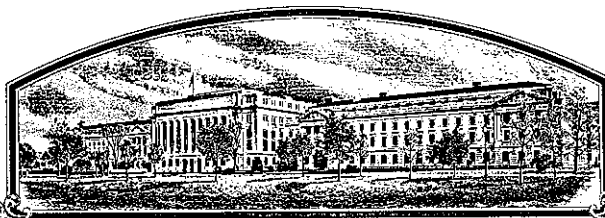


No.

8000137



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Royal Sluis, B.V.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (U.S.C. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SNAP BEAN.

'Lute'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 28th day of February in the year of our Lord one thousand nine hundred and eighty-three.

Attest:

Kenneth H. ...
Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture



UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
PLANT VARIETY PROTECTION OFFICE
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY RS 2215		1b. VARIETY NAME 'LUTE' <i>ab 8/28/81</i>		FOR OFFICIAL USE ONLY PV NUMBER 8000137	
2. KIND NAME Dwarf Snap Bean		3. GENUS AND SPECIES NAME Phaseolus vulgaris		FILING DATE 7-1-80	TIME 10:00 <input checked="" type="radio"/> A.M. <input type="radio"/> P.M.
4. FAMILY NAME (BOTANICAL) Leguminosa		5. DATE OF DETERMINATION September 1979		FEE RECEIVED \$ 500.00 \$ 250.00 \$	DATE 7-1-80 1/12/83
6. NAME OF APPLICANT(S) ROYAL SLUIS Koninklijke Zaaizaad- bedrijven Gebroeders Sluis B.V.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Westeinde 161 P.O. Box 22 1600 AA ENKHUIZEN Holland		8. TELEPHONE AREA CODE AND NUMBER 02280-2741	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) association			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION -		11. DATE OF INCORPORATION -

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

J.G. Timmerman
ROYAL SLUIS B.V.
P.O. Box 22
1600 AA ENKHUIZEN
Holland

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☐ 13D. Exhibit D, Additional Description of the Variety.

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations?

☐ YES☒ NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed?

☐ FOUNDATION☐ REGISTERED☐ CERTIFIED

15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal?

☒ YES☐ NO

16. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

April 28, 1980.

(DATE)

(SIGNATURE OF APPLICANT)

WB 00,01

0861 4.70P

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, Beltsville, Maryland 20705. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

5 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.

13a Give (1), the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.

13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.

13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.

14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

8000137

13 A. Exhibit A

=====

Pedigree: Prelude x own parentlines.

'LUTE'

<RS 2215> has been derived from several backcrosses of our parentlines to develop a very fine podded variety.

For the last several generations line selection has been carried out. Disease resistance testing has been carried out before multiplication of elite seeds.

'LUTE'

<RS 2215> appears stable and uniform through several generations of selfing and during our seed increase program.

After 6 generations no off types appeared.



ROYAL SLUIS

KONINKLIJKE ZAAIZAADBEDRIJVEN GEBROEDERS SLUIS B.V.

UNITED STATES DEPT. OF AGRICULTURE
Agricultural Marketing Service
Livestock, Meat, Grain & Seed Div.
Plant Variety Protection Office
National Agric. Library Building
BELTSVILLE, Maryland 20705
U. S. A.

POSTBOX 22, 1600 AA ENKHUIZEN
HOLLAND

PV # 8000137

EXHIBIT B

Attention: Mrs. C. Rose Broome

August 24, 1981.

Dear Mrs. Broome,

Subject: Bean Application No. 8000137, RS 2215.

In answer to your letter of July 29, 1981, I would like to draw your attention to the following points in which the varieties RS 2215 and Pros differ.

RS 2215 shows more podconstrictions than Pros, although less than Lud. Leafcolour of RS 2215 is 137 A, and of Pros it is 137 C, both on the Royal Horticultural Society, Colour Chart. Spurs of RS 2215 are slightly curved, while those of Gitana are strongly curved. (see picture)

We hope that this information is sufficient to process the application.

Yours sincerely,

ROYAL SLUIS

J.G. Timmerman
Marketing Department

JGT/WB

OBJECTIVE DESCRIPTION OF VARIETY

BEAN (*Phaseolus vulgaris* L.)

NAME OF APPLICANT(S) ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) Royal Sluis, P.O. Box 22, 1600 AA Enkhuizen, The Netherlands	<div style="text-align: center; border-bottom: 1px solid black; padding-bottom: 2px;">FOR OFFICIAL USE ONLY</div> PVPO NUMBER VARIETY NAME OR TEMPORARY DESIGNATION (RS 2215) = 'LUTE'
--	--

Place numbers in the boxes (e.g. 089) for the characters that best describe this variety. Measured data should be for SPACED PLANTS. Ranges may also be given. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: Royal Horticultural Society Colour Chart. The location of test area is Enkhuizen The Netherlands. Please answer questions appropriate for your variety if the information is available.

1. TYPE:

2 1 = Field (dry-edible) 2 = Garden

2. MARKET MATURITY:

7 8 Days to edible pods	 Days to green shells	
 Days to dry seeds		
 7 0 2 Heat units to edible pods	 Heat units to green shells	
 Heat units to dry seeds		
 No. days earlier than	 }	1 = Tendercrop 2 = Kentucky Wonder 3 = Kinghorn Wax 4 = White Kidney 5 = Michelite 62 6 = Dwarf Horticultural 7 = Bush Blue Lake 290 8 = Other (specify below) <u>SMILO</u>
..... Same as	7	
0 2 No. days later than	8	

3. PLANT:

1 1 = Determinate 2 = Indeterminate	
 4 0 cm height	
 cm shorter than	 }
..... Same as	 } comparison variety from above
0 5 cm taller than	8
3 0 cm spread	 1 5 Number primary branches near base
 cm narrower than	 }
..... width same as	 } comparison variety from above
0 2 cm wider than	8
1 Main stalk: 1 = brittle 2 = wirey	2 Branching habit: 1 = compact 2 = open
	1 1 = stout 2 = thin

3 Pod position: 1 = low 2 = high 3 = scattered

4 Bush form (illustrated below):



1 = spherical bush form



2 = stem bush form



3 = wide bush form



4 = high bush form

5 = other (specify) _____

4. LEAVES:

2 1 = smooth 2 = wrinkled

1 1 = dull 2 = glossy

2 Size: 1 = small (Earliwax) 2 = medium 3 = large (Tendercrop)

3 Color: 1 = light green (as light or lighter than Bountiful) 2 = medium green
3 = dark green (as dark or darker than Bush Blue Lake 290)

5. FLOWERS:

1 Color: 1 = white 2 = cream 3 = pink 4 = lilac 5 = purple 6 = Other (specify) _____

Days to 50% bloom

6. FRESH PODS: (Edible maturity, average for 20 pods)

3 Exterior color: 1 = light green (as light or lighter than Bountiful)
2 = medium green
3 = dark green (as dark or darker than Bush Blue Lake 290)
4 = light yellow (Brittlewax)
5 = golden yellow (Cherokee Wax)
6 = green-red variegated (Horticultural)
7 = other (specify) _____

% Sieve size distribution at optimum maturity for non-flat pods

Note:

1 = 4.76 mm to 5.76 mm 4 = 8.34 mm to 9.53 mm
2 = 5.76 mm to 7.34 mm 5 = 9.53 mm to 10.72 mm
3 = 7.34 mm to 8.34 mm 6 = 10.72 mm or larger

1	2	3	4	5	6
-	60	32	8		-




3 sieve	1 0	cm length	0 7	mm width	0 7	mm thickness
4 sieve		cm length		mm width		mm thickness
5 sieve		cm length		mm width		mm thickness
6 sieve		cm length		mm width		mm thickness

- ☐ Creaseback: 1 = present 2 = absent
- ☐ Pubescence: 1 = none 2 = sparse 3 = considerable
- ☐ Spur: 1 = straight 2 = slightly curved 3 = curved
- ☐ Constrictions: 1 = none 2 = slight 3 = deep
- ☐ Pod flesh: 1 = light 2 = medium 3 = dark
- ☐ ☐ mm spur length
- ☐ Fiber: 1 = none 2 = sparse 3 = considerable
- ☐ Number of seeds per pod
- ☐ Surface: 1 = smooth 2 = rough
- ☐ Suture string: 1 = present 2 = absent
- ☐ Seed development (Snap Bean): 1 = slow 2 = medium 3 = fast
- ☐ Machine harvest: 1 = adapted 2 = not adapted
- ☐ Pod flavor: (1) Standard (Tendercrop)
(2) Mild Blue Lake (BBL 274)
(3) Strong Blue Lake (Pole FM1)
(4) Mild Romano (Roma)
(5) Strong Romano (Pole Romano)
(6) Other (specify) _____

7. SEED COAT COLOR:

- ☐ 1 = Monochrome 2 = Polychrome ☐ 1 = shiny 2 = dull
- ☐ Primary color: 1 = white 2 = yellow 3 = buff 4 = tan
- ☐ Secondary color: 5 = brown 6 = pink 7 = red 8 = purple
9 = blue 10 = black 11 = other (specify) _____
- ☐ Color Pattern: 1 = none 2 = splashed 3 = mottled 4 = striped 5 = flecked 6 = dotted
- ☐ Secondary color location: 1 = hilar ring 2 = ventral surface
3 = sides 4 = dorsal surface
5 = not restricted to any area 6 = combination of location (specify below) _____
- ☐ Hilar ring on colored seeds: 1 = absent 2 = narrow 3 = butterfly shaped

8. SEED SHAPE AND SIZE:

- ☐ Hilum view: 1 = elliptical 2 = oval 3 = round ☐ 4 Cross section: 1 = elliptical 2 = oval 3 = cordate 4 = round
- ☐ Side view:   
- 1 = oval to oblong 2 = round 3 = reniform

8. SEED SHAPE AND SIZE: (Cont'd)

☐ 2 1 = truncate ends 2 = rounded ends

☐ 1 ☐ 6 gm/100 seed

☐ 0 ☐ 1 gm/100 seed lighter than

☐ 8

gm/100 seed same as

☐

comparison variety from page one

☐ gm/100 seed heavier than

☐

9. ANTHOCYANIN: (1 = absent 2 = present)

☐ 1 Flowers

☐ 1 Stems

☐ 1 Pods

☐ 1 Seeds

☐ 1 Leaves

10. DISEASE RESISTANCE (0 = not tested 1 = susceptible 2 = resistant):

☐ 2 Anthracnose (specify race below)

☐ 0 Fuscos blight

☐ 0 Rust (specify race below)

☐ 0 Red node virus

☐ 0 Powdery mildew

☐ 0 Pod mottle virus

☐ 0 Fusarium root rot

☐ 1 Bean common mosaic virus (specify strain below)

☐ 0 Pythium root rot

☐ 2 Mosaic mottle

☐ 0 Rhizoctonia root rot

☐ 1 Black root

☐ 0 Pythium wilt

☐ 0 Bean yellow mosaic virus

☐ 0 Angular leaf spot

☐ 0 Curly top

☐ 1 Bacterial wilt

☐ Other (specify below)

☐ 0 Halo blight (specify race below)

11. INSECT RESISTANCE: (0 = not tested 1 = susceptible 2 = resistant)

☐ 0 Aphids

☐ 0 Root knot nematode

☐ 0 Leaf hopper

☐ 0 Seed corn maggot

☐ 0 Lygus

☐ 0 Thrips

☐ 0 Pod borer

☐ 0 Weavils

☐ Other (specify below)

12. PHYSIOLOGICAL RESISTANCE: (0 = not tested 1 = susceptible 2 = resistant)

☐ 2 Heat

☐ 1 Cold

☐ 2 Drought

☐ 0 Air pollution

13. COMMENTS: